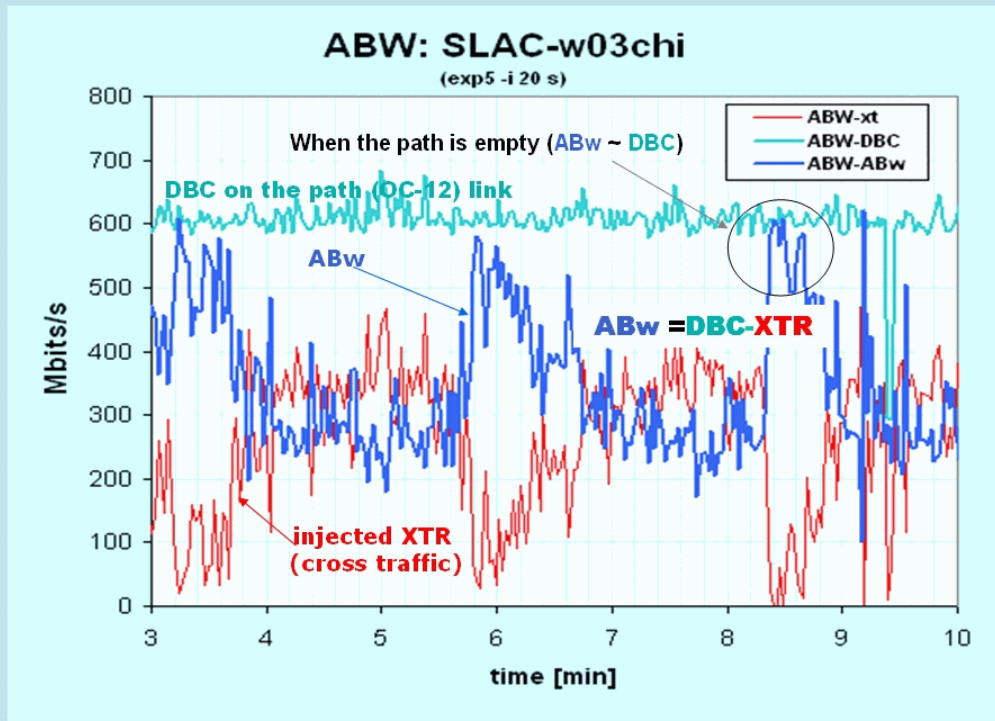


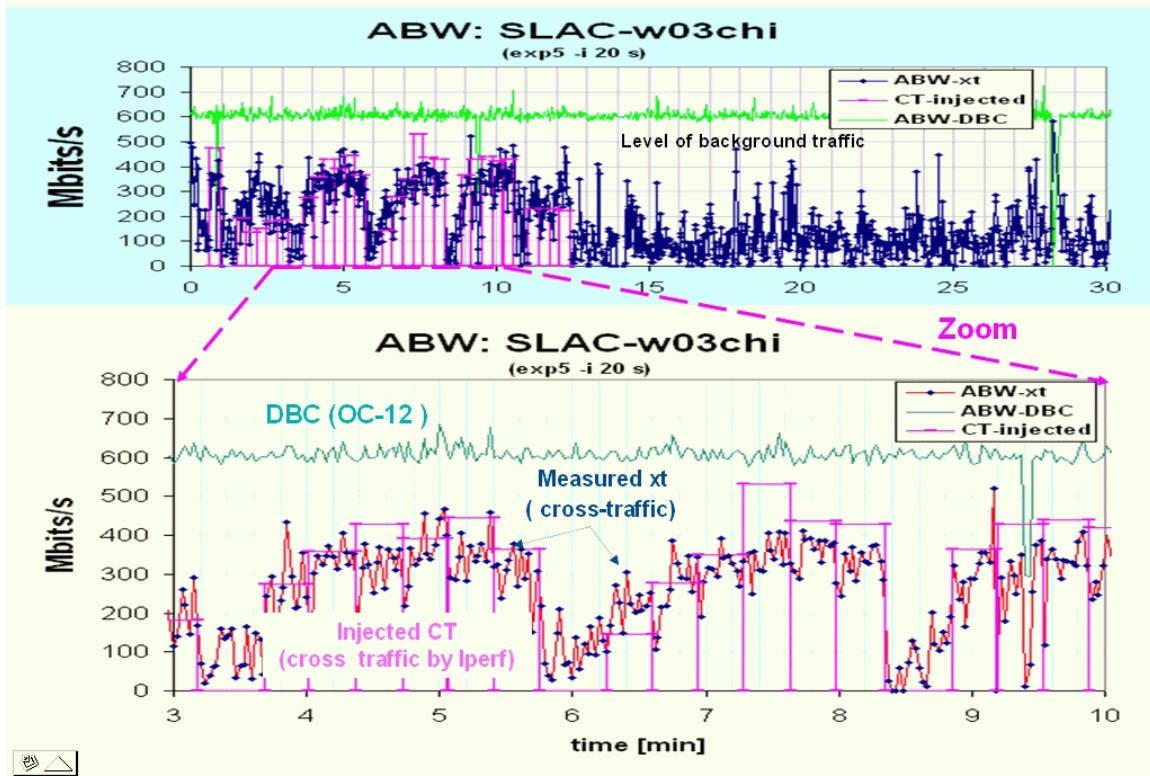
AB-examples and utilization

**Jiri Navratil, Les R.Cottrell
(SLAC)**

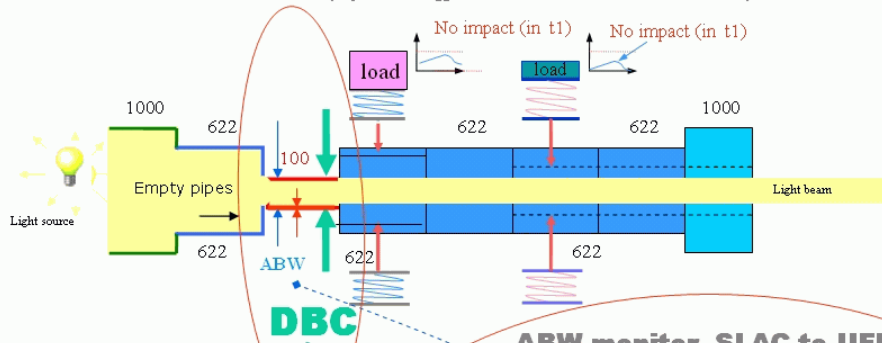
Basic Relation of **Abw** **DBC** **XTR** on example with injected cross traffic



The match of the cross traffic (ABW compare to injection traffic generated by lperf)

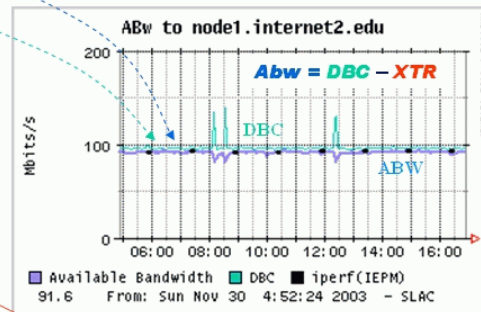


(Pipes analogy with different diameter and slots)



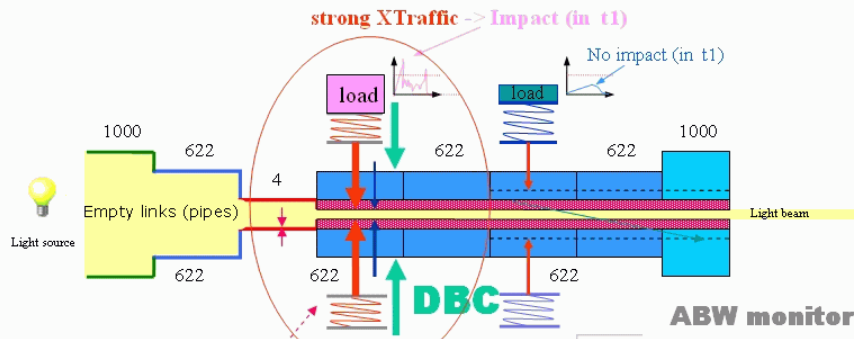
link that has domination effect
on bandwidth

ABW monitor SLAC to UFL

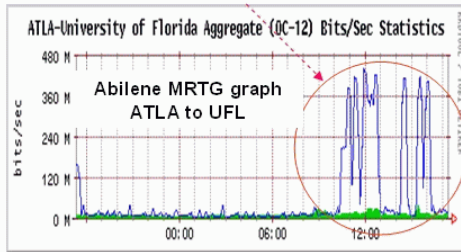


Example of heavy loaded link in the path

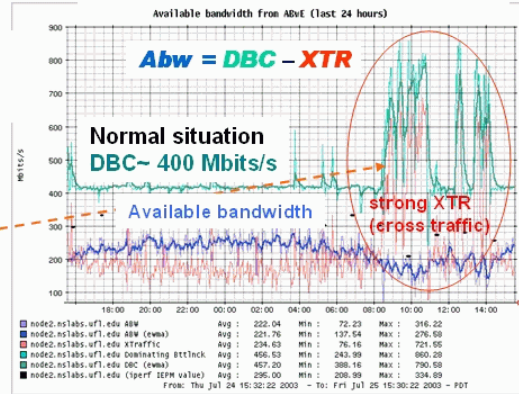
(Pipes analogy with different diameter and slots)

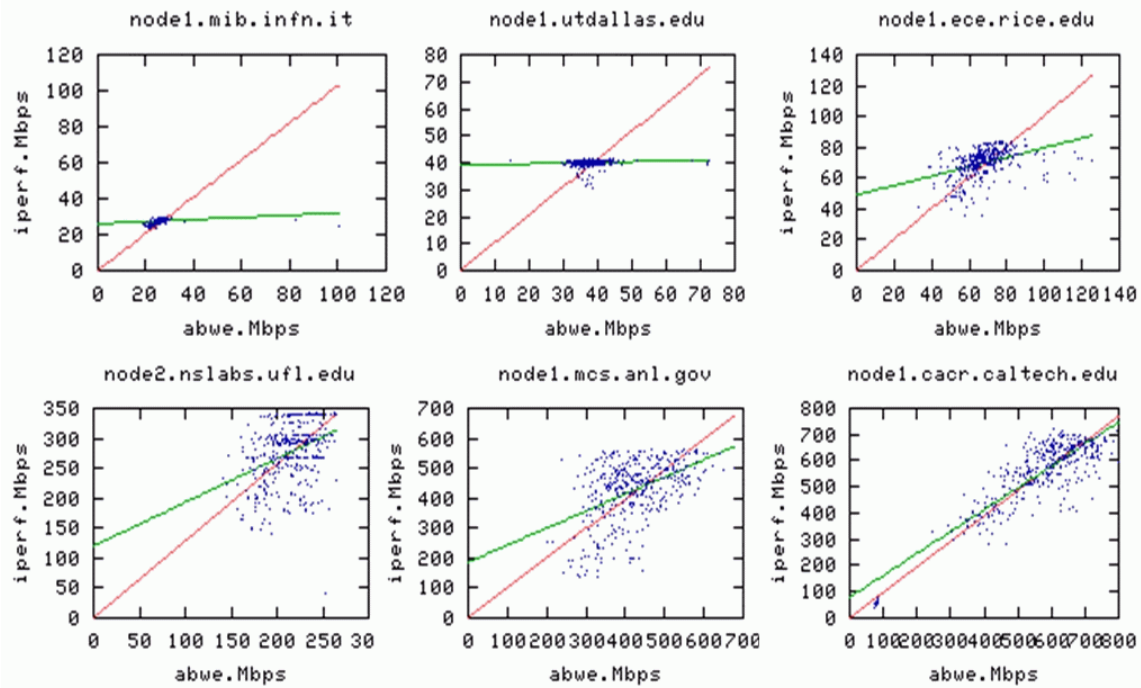


Heavy load (**strong cross traffic**) appeared in the path
It shows **new DBC** in the path because this load **dominates** in whole path !



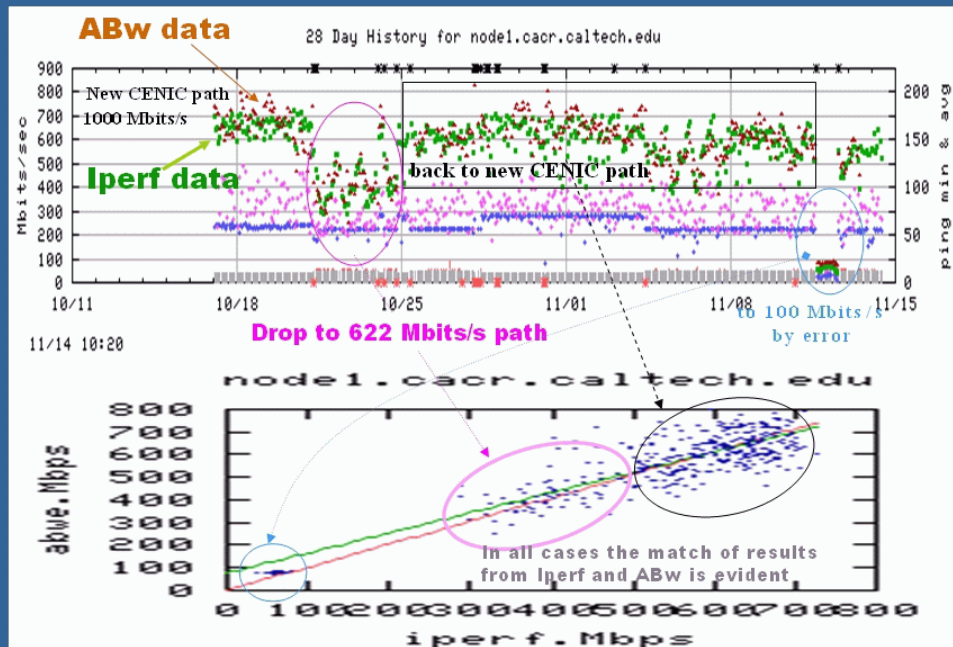
ABW monitor SLAC to UFL





**Scatter plot graphs Iperf versus ABw
on different paths (range 20–800 Mbits/s)**
(28 days history)



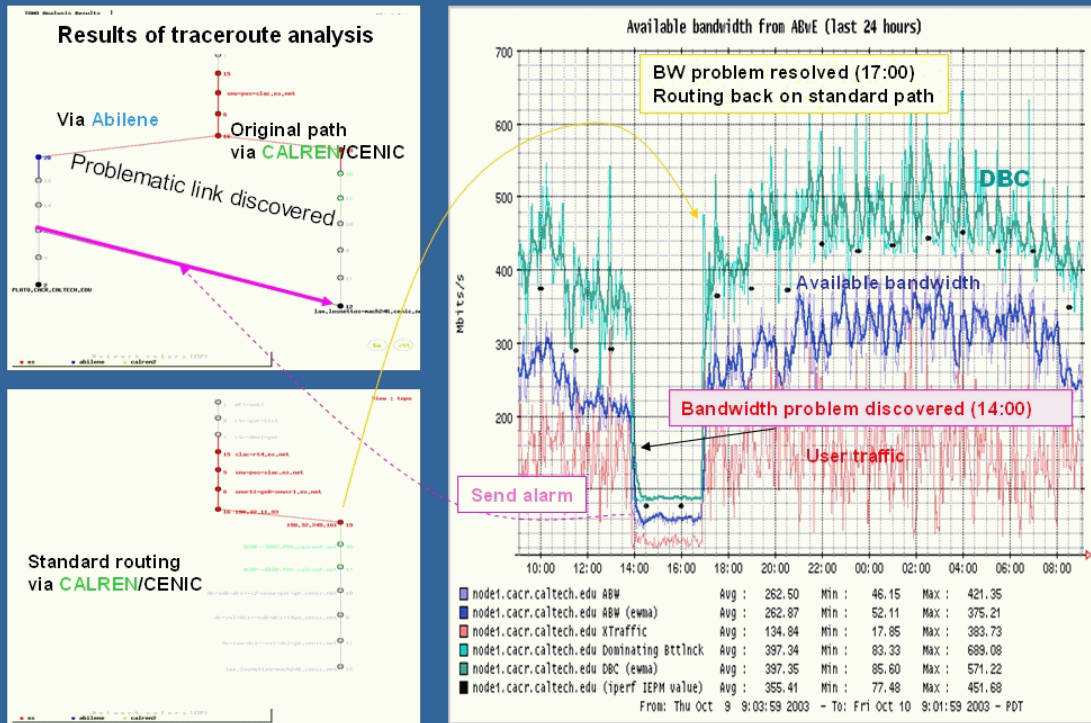


28 days bandwidth history

During this time we can see several different situations caused by different routing from SLAC to CALTECH



ABw as Troubleshooting tool (Discovering Routing problems and initiate alarming)



(Example from SLAC – CENIC path)

SLAC – CENIC path upgrade from 1 to 10 Gigabit

(Current monitoring machines allow monitor traffic in range $1 < 1000$ Mbits only)

